

# Notice of Allowability

Application No.

10/813,891

Examiner

Kaushikkumar Patel

Applicant(s)

CYPHER, ROBERT E.

Art Unit

2188

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to applicant's communication filed 11/14/2006.
2. ☒ The allowed claim(s) is/are 1-3, 6-15, 17-19 and 22-31.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

HYUNG SOUGH  
SUPERVISORY PATENT EXAMINER

1-22-07

## DETAILED ACTION

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stephen J. Curran (Reg. No. 50,664) on January 18, 2007.

The application is amended as follows:

**Claim 1. (Currently amended)** A system, comprising:

a plurality of nodes, wherein each node of the plurality of nodes includes a plurality of active devices, one or more memory subsystems, and an address network that is configured to couple the plurality of active devices and the one or more memory subsystems together; and

an inter-node network coupled to the address network and configured to convey communications between the plurality of nodes;

wherein each address network is independently configured to convey address packets specifying a coherency unit using a broadcast mode and a point-to-point mode; and

wherein each address network is further configured to independently select one of the broadcast mode and the point-to-point mode dependent upon whether the

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coherency unit maps to any of the one or more memory subsystems ~~of the plurality of active devices~~ included in the node.

**Claim 2. (Currently amended)** The system of claim 1, wherein ~~the plurality of active devices includes one or more memory subsystems, and wherein~~ in response to determining the coherency unit does not map to any of the one or more memory subsystems included in the node, the address network in the node is configured to convey all the address packets specifying the coherency unit in the broadcast mode.

**Claims 4-5. (Cancelled).**

**Claim 17. (Currently amended)** A method of operating a multi-node computer system, wherein the multi-node computer system includes a plurality of nodes coupled together by an inter-node network, wherein each node includes a plurality of active devices, one or more memory subsystems, and an address network coupling together the plurality of active devices and the one or more memory subsystems, the method comprising:

each address network included in a node of the plurality of nodes independently conveying address packets specifying a coherency unit using a broadcast mode and a point-to-point mode; and

each address network independently selecting one of the broadcast mode and the point-to-point mode dependent upon whether the coherency unit maps to any of the ~~active devices of the plurality of active devices~~ one or more memory subsystems included in the node.

**Claim 18. (Currently amended)** The method of claim 17, ~~wherein the plurality of active devices includes one or more memory subsystems, the method further~~ comprising:

the address network in the node conveying all the address packets specifying the coherency unit in the broadcast mode, in response to determining the coherency unit does not map to any of the one or more memory subsystem included in the node.

**Claims 20-21. (Cancelled).**

***Allowable Subject Matter***

2. Claims 1-3, 6-15, 17-19 and 22-31 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

As per independent claims 1 and 17, prior arts of record fail to teach an address network of each node in multi-node system independently configured to convey address packets specifying coherency unit using a broadcast mode and a point-to-point mode and independently select one of the broadcast mode and the point-to-point mode dependent upon whether coherency unit maps to one or more memory system of the node.

***Remarks***

3. Claims 1-2 and 17-18 are amended to correct minor informalities and claims 4-5 and 20-21 are canceled due to previous office action claim objections.

**Conclusion**

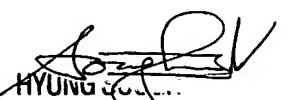
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kaushikkumar Patel whose telephone number is 571-272-5536. The examiner can normally be reached on 8.00 am - 4.30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung Sough can be reached on 571-272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
kmp

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